

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A stator for an electromagnetic pump comprising:
a cylinder whose both end faces are respectively closed by a pair of frames;
a movable member having a magnetic body, in which flange sections are formed at both
axial ends and outer circumferential faces of the flange sections act as magnetic flux working
surfaces, said movable member being accommodated in said cylinder and capable of reciprocally
moving in the axial direction thereof;
pump chambers being respectively formed between inner faces of the frames and both
side faces of said movable member extended in the moving direction thereof; and
air-core electromagnetic coils which are wound in opposite directions being fitted around
a periphery of said cylinder,
wherein yokes made of a magnetic material are provided to end faces of the
electromagnetic coils to face the flange sections of the movable body;
an outer yoke encloses outer faces of the yokes;
a spacer made of a nonmagnetic material or an air space is provided between adjacent
yokes, and
wherein the movable member is reciprocally moved repeatedly moved toward one of the
sides according to a magnitude relation between magnetic attraction forces which work to the
movable member and are generated by magnetic circuits formed between the flange sections and
the adjacent yokes and between the flange sections, the end yoke, ~~the outer yoke~~ and the adjacent
yokes when an electric current is supplied to the electromagnetic coils with the changing of the
current direction, and
wherein a restoring force for returning the movable member toward a center of a stroke is
generated by magnetic circuits formed between the movable member and the adjacent yokes
when the movable member is located on one of the sides and the electric current to the
electromagnetic coils is turned off.

2-10. (Canceled)